# NEW GENERA AND SPECIES OF AUSTRALIAN DROSOPHILIDAE (DIPTERA)

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### Abstract

Bialba rotunda gen n., sp. n.; Poliocephala microabdomina gen. n., sp. n.; Amiota bicolorata sp. n.; Drosophila tozana sp. n.; Eostegana bulla sp.n.; and Leucophenga candida sp. n. are described from the Mt Tozer area of northern Queensland. The new genera appear to be most closely related to Mycodrosophila Oldenberg. A revised key to the Drosophilidae of the Iron Range area is presented.

# Introduction

Worldwide, the Drosophilidae contain more than 2,500 described species, of which about 250 are Australian. The bulk of the Australian fauna is restricted to the rain forests of northern Queensland, apparently representing a "spillover" of the extremely rich, and as yet largely undescribed, tropical fauna of New Guinea and southeast Asia.

Several collections have been made in the past decade at particular northern Queensland sites, and new species have been recovered on each such occasion (Bock 1982, 1984; McEvey 1981; McEvey and Bock 1982). Several areas still, however, offer considerable promise for further collecting, especially the rich rain forests in the vicinity of Iron Range. A collection made in June-July 1986 by the CSIRO Division of Entomology near Mt Tozer in the Iron Range region yielded the new material described below.

Terminology follows that of Bock (1976) and subsequent papers. All specimens are in the Australian National Insect Collection, CSIRO, Canberra.

#### SUBFAMILY DROSOPHILINAE

#### Drosophila Fallén

Drosophila Fallén, 1823: 4. Type species Musca funebris F. (Europe), des. Zetterstedt, 1847: 2542.

#### Drosophila (Hirtodrosophila) tozana sp. n.

Type-Queensland: holotype &, 12.43S 143.17E, 9km ENE Mt Tozer, 5-10.vii.1986, D. H. Colless.

Distinguishing features—Pleura with broad dark longitudinal band above; mesonotum tan, darker medially; abdomen blackish; wing clear; anterior scutellar bristles weak.

Body length—2.4 mm.

Head—Artista large, with 5 rays above and 2 below plus large terminal fork. Width of front 1.4 times length, front tan in anterior third, darkened in posterior two thirds. Orbital bristles in ratio 3:1:4; anterior reclinate orbital very fine, slightly lateral to line joining other orbitals. Ocellar and postvertical bristles relatively long but fine; verticals a little stronger than posterior reclinate orbitals. 2nd and 3rd antennal segments dusky tan; 3rd segment small. Carina weak, narrow, low, tan; face otherwise weakly dusky tan. Eye large, bare, somewhat pear-shaped, narrower below. Palp tan. Cheek very narrow. Vibrissa rather weak.

Thorax—Mesonotum tan, weakly darkened in broad median longitudinal band limited by extended lines of dorsocentral bristles. Acrostichal hairs in 6 somewhat irregular rows in front of dorsocentral bristles, 4 rows between dorsocentrals. Ratio anterior: posterior dorsocentrals 0.4. Scutellum tan, darker centrally. Anterior scutellar bristles convergent, half length of posterior pair. Pleura tan below, broadly blackish above, colourations rather sharply demarcated, ca upper 80% of mesopleuron within darkened area. Haltere dusky. Legs pale tan; knees 2 and 3 slightly darkened.

Wing—Hyaline. Anterior crossvein very short. Anal vein developed. C-index 1.8; 4V-index 2.0; 5X-index 1.35; M-index 0.45. 3rd costal section with heavy setation on basal 0.45. Length 2.1 mm.

Abdomen—Tergite 1 tan. Tergite 2 tan in small median patch anteriorly, otherwise blackish. Tergites 3-6 blackish.

#### Notes

This species is clearly closely related to *D. mixtura* Bock. Although superficially very similar, they differ in a number of details, viz., in *D. tozana* the mesonotum is

paler than in *D. mixtura*, the upper pleural darkening is broader, the anterior crossvein is shorter, the carina is more developed, the arista is smaller, abdominal tergite 6 is dark (pale in *D. mixtura*), and the front is more acutely rounded on to the occiput. *D. mixtura* is known to congregate on the undersides of fleshy bracket fungi, where the males exhibit territorial and courting behaviour and may sometimes be collected in considerable numbers (behaviour shared with the more southerly *Hirtodrosophila* species *D. polypori* Malloch and *D. mycetophaga* Malloch). *D. tozana* is presently known only from a single specimen; it is tempting to speculate that further collecting may reveal a similar fungal association.

# Etymology

From the type locality.

# Poliocephala gen. n.

Type species Poliocephala microabdomina sp.n.

Body small; arista large, plumose; face weakly carinate; front prominent, largely grey; vibrissa single; mesonotum and scutellum velvety; acrostichal hairs in 2 rows; prescutellar bristles absent; wing without anal vein; discal and 2nd basal cells confluent; abdomen small.

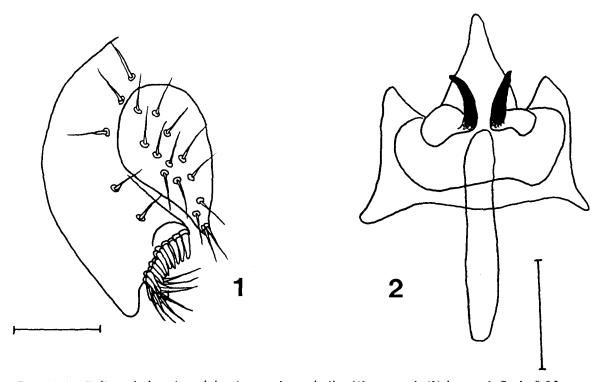
# Poliocephala microabdomina sp. n. (Figs 1, 2)

Types—Queensland: holotype  $\delta$ , 12.44S 143.14E, 3km ENE of Mt Tozer, 28.vi.-4.vii.1986, malaise trap, D.H. Colless; paratypes:  $1\delta$ , 299, same data as holotype;  $1\delta$ , 19, 12.43S 143.18E, 11km ENE of Mt Tozer, 11-16.vii.1986, D.H. Colless.

Distinguishing features—As given in generic diagnosis above; front largely slate-grey, narrowly pale anteriorly.

Body length-1.2 mm. (holotype; paratypes similar or slightly smaller).

Head—Arista with 5 rays above and 3-4 below plus terminal fork. Width of front 1.6 times length, front tan in narrow anterior band, otherwise subshining slatey bluish-grey including occilar triangle, latter slightly elevated. Occiput blackish. Orbital bristles rather small; proclinate and posterior reclinate bristles subequal; anterior reclinate orbital very small, lateral to proclinate orbital. Ocellar bristles rather small. Postverticals small and fine; verticals rather larger than other cephalic macrochaetae. 2nd antennal segment tan; 3rd segment small, rounded, dusky. Face narrow, slightly carinate, mid-brownish. Cheek curved, very narrow, barely widened in posterior corner. Vibrissa rather weak. Eye with strong fine pile.



Figs (1-2)—Poliocephala microabdomina, male genitalia: (1) external; (2) internal. Scale 0.05 mm.

Thorax—Mesonotum entirely velvety blackish brown, darkening to blackish on scutellum. Acrostichal hairs sparse, large. Dorsocentral bristles rather small, anterior: posterior in ratio 0.7. Anterior scutellar bristles slightly divergent; posterior scutellars crossed. Pleura largely dark brownish, paler in longitudinal band across lower third of mesopleuron. Sternopleuron with 3 macrochaetae, 3rd rather larger than 1st and 2nd. Haltere pale tan. Legs brownish, femora darkest; preapical bristles present on tibiae 2 and 3; apical on tibia 2.

Wing—Hyaline, rather slender; 5th longitudinal vein weakened apically. C-index 1.15; 4V-index 1.9; 5X-index 3.2; M-index 0.7. 3rd costal section with heavy setation on basal 0.4. Length (holotype) 1.1 mm.

Abdomen-Small. Tergite 1 tan; tergite 2 tan anteriorly, blackish posteriorly; tergites 3-5 velvety blackish; tergite 6 tan.

Male genitalia—Figs 1, 2. Clasper with row of stout black teeth. Aedeagus strongly sclerotised, tapered apically; parandrite with very large black tooth.

Female genitalia—Egg guide well developed, apically tapered, with sparse marginal teeth.

#### Notes

P. microabdomina superficially appears reminiscent of most species of the genus Mycodrosophila Oldenberg in its dorsal thoracic and abdominal colouration, but differs from typical Mycodrosophila species in possessing a velvety thorax (shiny in Mycodrosophila) and 2 pairs of dorsocentral bristles (1 in Mycodrosophila), and in lacking the typical Mycodrosophila wing lappet. The unusual and striking frontal colouration of P. microabdomina is also unique. The species may be a specialised offshoot of Mycodrosophila. [cf. Okada (1986), where atypical species are discussed.]

# Etymology

Generic name from the Greek, grey + head; specific name from the Latin, small + abdomen.

## Bialba gen. n.

Type species Bialba rotunda sp. n.

Arista plumose; front with lateral white bands; orbital bristles on posterior half of front; vibrissa single; mesonotum shiny, dark, with 6 rows of acrostichal hairs and 2 pairs of dorsocentral bristles; prescutellars absent; scutellum rather bulbous, concolourous with mesonotum, with 2 pairs of macrochaetae; wing with weak anal vein; discal and 2nd basal cells confluent.

# Bialba rotunda sp. n.

Type—Queensland: holotype ♀, 12.43S 143.17E, 9km ENE of Mt Tozer, 5-10.vii.1986, malaise trap, D.H. Colless.

Distinguishing features—As given in generic diagnosis above; white frontal bands extending on to antennae.

Body length-2.1 mm.

Head—Arista with 3 rays above and 2 below plus terminal fork; basal dorsal ray curved apically. Width of front equal to length; front bright orange tan between lateral white bands, latter tapered posteriorly leaving small dark posterolateral triangular area on each side of head (orbital bristles just within latter). Ocellar triangle small, elevated, darkened. Orbital bristles relatively small, almost in line, in ratio 4:1:3. Ocellar bristles about as long as proclinate orbitals. Postverticals displaced on to occiput. Vertical bristles larger than other cephalic macrochaetae. 2nd antennal segment tan medially, white laterally; 3rd segment large, entirely snowy white. Face dirty tan, with rather weak carina bearing fine median ridge. Cheek slightly curved, narrow, only slightly widened in posterior corner. Palp dark tan. Eye with short pile.

Thorax—Mesonotum, scutellum and pleura shiny brownish black with metallic tinges. Mesonotum with sparse pale very fine scales in median longitudinal band enclosing middle 4 rows of acrostichals. Ratio anterior: posterior dorsocentral bristles 0.65. Anterior scutellar bristles divergent; posterior bristles crossed. Sternopleuron with 2 macrochaetae, posterior bristle larger. Haltere pale tan. Legs brownish, darkest on femora; preapical bristles on tibiae 2 and 3; apical on tibia 2.

Wing—Hyaline; 5th longitudinal vein weakened apically. C-index 1.5; 4V-index 2.3; 5X-index 2.0; M-index 0.8. 3rd costal section with heavy setation on basal 0.6. Length 1.8 mm.

Abdomen—Brownish black with metallic tinges; weak scales present in anterior median basal patches on tergites 1-3.

Female genitalia—Egg guide strongly sclerotised, slender, elongate, with several long hairs but without teeth.

#### Notes

Bialba appears to be related to Mycodrosophila in possessing a rounded shiny mesonotum and a prominent strongly rounded scutellum, but differs from typical Mycrodrosophila in that its scutellum is not velvety, in its possession of 2 pairs of dorsocentral bristles, and in lacking a costal lappet. The prominent white cephalic stripes are reminiscent of Phorticella Duda, but in species of the latter genus the thorax is also striped. Bialba may (as postulated above for Poliocephala) be a specialised offshoot of Mycodrosophila.

# Etymology

Generic name from the Latin, two + white; specific name from the Latin, round. The generic name is considered feminine.

#### SUBFAMILY STEGANINAE

# Leucophenga Mik

Leucophenga Mik, 1886: 317. Type species Drosophila maculata Dufour (Europe), orig. des.

# Leucophenga candida sp. n.

Type—Queensland: holotype &, 12.43S 143.18E, 11km ENE Mt Tozer, 11-16.vii.1986, at light, D.H. Colless.

Distinguishing features—Front pale, narrow; dorsal thorax and anterior abdomen with dense silvery pollinosity; wing patterned; abdominal tergites 4-5 with extensive darkening.

Body length-2.5 mm.

Head—Arista with 4 rays above and 2 below plus small terminal fork. Width of front 0.6 times length, front very pale tan; ocellar triangle small, elevated, darkened. Orbital bristles in ratio 1:1:2, in line, anterior reclinate orbital closer to proclinate than to posterior reclinate orbital. Postvertical bristles well developed. 2nd and 3rd antennal segments pale tan. Face pale tan. Palp tan. Cheek curved, extremely narrow.

Thorax—Mesonotum and scutellum tan below dense silvery pollinosity. Pleura entirely tan, a little darker posteriorly. Haltere tan. Acrostichal hairs in ca 8 irregular rows in front of dorsocentral bristles, 4-6 rows between dorsocentrals. Ratio anterior: posterior dorsocentrals 0.6. Legs entirely tan.

Wing—Hyaline with weak darkening basally, prominent large dark spot at end of 2nd longitudinal vein, faint darkening about end of 3rd longitudinal vein, and well-defined dark patches about anterior and posterior crossveins, latter extending more weakly along apical portion of 5th longitudinal vein. C-index 1.35; 4V-index 1.3; 5X-index 1.0; M-index 0.55. 3rd costal section with heavy setation on basal 0.55. Length 1.9 mm.

Abdomen—Tergites 1-3 tan, 2-3 with dense silvery pollinosity dorsally. Tergites 4-5 largely blackish, each with anterior pair of submedian tan spots, latter appreciably larger on tergite 5.

# Notes

This species appears to be allied to the members of the subpollinosa species group discussed by Okada (1987), but differs from the latter in possessing more strongly developed postvertical bristles, in lacking pleural darkening, and in its wing pattern. The wing pattern is very similar of that of Leucophenga domanda Bock, 1984 (figured in Bock, 1979, as "sp. B"), but in many other respects the 2 species are quite dissimilar. Given the polymorphisms known to exist in many Leucophenga species, it is likely that the female of L. candida, when discovered, will prove to lack, or possess appreciably weaker, general body pollinosity than the male described above.

# Etymology

From the Latin, bright.

#### Amiota Loew

Amiota Loew, 1861: 230. Type species A. leucostoma Loew (U.S.A.), des. Coquillett, 1910: 505.

# Amiota (Amiota) bicolorata sp. n.

Type—Queensland: holotype 9, 12.43S 143.18E, 11km ENE Mt Tozer, 11-16.vii.1986, at light, D.H.

Distinguishing features—Thorax pale-mid brown, with white spots typical of subgenus; prescutellar bristles absent; abdomen black posteriorly and laterally, otherwise tan.

Body length-3.0 mm.

Head—Arista with 4-5 rays above and 2-3 below plus terminal fork. Width of front 0.95 times length; front tan, darker posteriorly; ocellar triangle small, elevated, infuscated. Orbital bristles in line, anterior reclinate only slightly smaller than proclinate and posterior reclinate, much closer to former than to latter. Ocellar and vertical bristles subequal. Postverticals weak, displaced on to occiput. 2nd antennal segment tan; 3rd segment dusky tan. Carina weak, low, nose-like. Face tan above transverse milky-white band. Palp tan. Cheek pale tan, narrow, not widened in posterior corner. Vibrissa weak.

Thorax—Mesonotum shiny dark tan. Acrostichal hairs in numerous rows. Anterior dorsocentrals 0.6 times length of posterior dorsocentrals. Prescutellar bristles absent (specimen pinned such that prescutellar region of thorax partly damaged, but no trace of prescutellar bristles or their sockets present in cuticle). Scutellum concolourous with mesonotum. Anterior scutellar bristles appreciably larger than posterior scutellars, former widely divergent. Pleura tan, dusky above, with typical white spots. Haltere pale tan. Legs tan.

Wing—Hyaline. C-index 1.2; 4V-index 2.8; 5X-index 1.75; M-index 0.8. 3rd costal section with heavy setation on basal 0.6. Length 2.6 mm.

Abdomen—Tergite 1 pale tan. Tergite 2 tan above, black laterally. Tergite 3 largely tan above, black laterally. Tergite 4 tan medially, black laterally. Tergite 5 (last visible tergite) shiny black. Pale area on dorsum of abdomen in triangular patch, not very sharply demarcated from posterior and lateral black colouration. Incurved portions of tergites 2-5 shiny black.

#### Notes

The species is similar to A. albomaculata (Duda), but differs from the latter in its colouration (body entirely dark in A. albomaculata), possession of postvertical microchaetae (postverticals absent in A. albomaculata) and especially in its lack of prescutellar bristles (which are well developed in A. albomaculata). Possession of the latter bristles is regarded as a generic attribute in Amiota and indeed as a subfamilial attribute for the Steganinae, but a few exceptional species (such as Crincosia lawgana Bock) lacking prescutellars are known. There is no doubt that the present species is otherwise a typical member of the genus Amiota.

## Etymology

From the Latin, two colours.

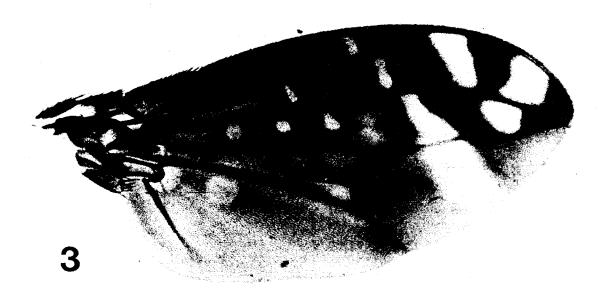


Fig 3—Eostegana bulla, wing.

# Eostegana Hendel

Eostegana Hendel, 1913: 390. Type species E. biroi Hendel (New Guinea), orig. des.

# Eostegana bulla sp. n. (Fig. 3)

Types—QUEENSLAND: holotype 9, 12.43S 143.17E, 9km ENE Mt Tozer, 5-10.vi.1986, malaise trap, J.C. Cardale; paratypes: 19, 12.43S 143.17E, 9km ENE Mt Tozer, 5-10.vi.1986, D.H. Colless, 13, 12.44S 143.14E, 3km ENE Mt Tozer, 28.vi-4.vii. 1986, D.H. Colless.

Other material examined—QUEENSLAND: 1 &, same data as holotype (headless).

Distinguishing features—Scutellum apically pale; carina large, bulbous; 3rd antennal segment very long; arista large, with apical rays in several planes.

Body length—3.6 mm (holotype); 3.2-3.7 mm (paratype range).

Head—Arista long, with 7 basal dorsal rays and ca 10 apical rays variously placed about axis, latter ending in typical terminal fork. Width of front 1.15 times length; front mid-brownish, darker around triangle extending forward from anterior ocellus, paler around orbital bristles, latter almost in line, in ratio ca 3:2:3, anterior reclinate closer to proclinate than to posterior reclinate. Ocellar and vertical bristles large, subequal; postverticals fine. 2nd and 3rd antennal segments dark brownish; 3rd segment greatly elongated, almost as long as arista. Face mid-brownish; carina greatly enlarged, globular, filling entire face. Palp large, yellowish, with dark brown patch basally. Cheek very narrow, barely widened in posterior corner.

Thorax—Mesonotum mid to dark brown, paler laterally especially about humeral calli. Acrostichal hairs in 8-10 rows in front of dorsocentral bristles, ca 8 rows between dorsocentrals. Anterior dorsocentrals 0.4 times length of posterior dorsocentrals, close to latter. Scutellum rather broadly rounded, largely pale, becoming brownish anteriorly. Anterior and posterior scutellar bristles subequal; small patch of microchaetae just anterior to base of each anterior scutellar bristle. Pleura dark brown, with 2 longitudinal or slightly oblique pale lines across mesopleuron and pale colouration along mesopleural-sternopleural suture. Haltere tan with some weak darkening. Legs dark brownish except for pale tarsi (uppermost portions of metatarsi dark): mid tibia with large apical bristle.

Wing—Strongly patterned in fashion typical of genus (Fig. 3), with numerous larger and smaller pale patches against dark background. Costa reaching apex of 4th longitudinal vein (although 3rd and 4th veins apically convergent). C-index 1.3; 4V-index 2.5; 5X-index 1.4; M-index 1.0. 3rd costal section with heavy setation on basal 0.65. Length (holotype) 3.2 mm.

Abdomen-Entirely dark brownish.

#### Notes

The species is typical of its genus in its large body size and dark brownish colouration (except the apically pale scutellum) and complex wing patterning. It is atypical in one aspect of its wing venation (costa reaching apex of 4th longitudinal vein), its greatly hypertrophied facial carina, its arista (with rays not confined to 1 plane) and its strongly elongated 3rd antennal segments. The latter characteristic is known in a few species of Ephydridae but seems to be otherwise absent in Drosophilidae.

## Etymology

From the Latin, a round swelling (after the bulbous carina).

# Discussion

The material described above supplements that covered in McEvey and Bock (1982). The enlarged key provided below incorporates the new genera and species.

# Key to the Drosophilidae of the Iron Range Area

1.	Mesonotum with more than 2 pairs of dorsocentral bristles.	•	2
	Mesonotum with 1-2 pairs of dorsocentral bristles		3
2 (1).	Mesonotum with 3 pairs of dorsocentrals, anterior pair somewhat		
	removed from posterior 2 pairs Balara poecili	itho	rax
	Mesonotum with 4 pairs of large dorsocentral bristles		
	Drosophila pseudotetra	icha	eta
3 (1).	Mesonotum with 1 pair of dorsocentrals, or anterior pair		
	extremely small		4
	Mesonotum with 2 pairs of large dorsocentrals		12

4 (3).	Scutellum strongly upturned, apically pointed	
	Soutably broadly rounded not water at the	thyrea claudensis
	Scutellum broadly rounded, not upturned (genus Mycodrosophila)	
5 (4).	XX71	
J (1).	Costa protruding at distal incision as large black lappet	(
6 (5).		
0 (5).	Managed as 1-11	
7 (5).	Head laterally expanded, noticeably broader than thorax	M. separata
, (5).	read interesty expanded, noticeably broader than thorax	M. grandifrons
	Haad mat lateraller surren 1. 1	
8 (7).	Wing with apical darkening	8
· (.).	TT7'	
9 (8).	Thorax with some darkening on pleurotergite and lowe	r nart
(-)-	of pteropleuron	10
	of pteropleuron  Thorax entirely pale below level of wing articulation	10
10 (9).	Abdominal tergites 3-4 almost entirely black dorsally	M gordon
(-)-	Abdominal tergites 3-4 pale tan with posterior and central	hlack
	markings	M anna
11 (9).	markings Wing with obvious dark transverse band behind lappet	M. claudensis
` ,	Wing at most with trace of dark band behind lappet	M. helenge
12 (3).	Humeral calli with milky white spots	Amiota bicolorata
` ,	Humeral calli without milky white spots	
13 (12).	XX7-11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14
		55
14 (13).	Carina knife-like (genus Stegana)	15
	Carina, if present, not knife-like	16
15 (14).	Pleura with broad dark longitudinal band	S. claudana
	Pleura entirely pale	S. lamondi
16 (14).	Carina bulbous; wing with complex pattern, largely	dark
		Eostegana bulla
	Carina not bulbous; wing not predominantly dark with con	mplex
17 (16)	pattern	
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26 (25).	Pleura with dark lateral stripe					. L. zebra
	Pleura without lateral stripe					27
27 (26).	Wing with distinct pattern					28
	Wing without pattern Wing with large weakly darker					30
28 (27).	Wing with large weakly darker	ed patch	about	apica	l half	of
, ,	2nd longitudinal vein	-	• •			. L. ornata
	2nd longitudinal vein Wing with strongly darkened pa	itch at en	d of 2r	id lon	gitudir	nal
	vein					29
29 (28).	Thorax with dense silvery pollino	sity				. L. candida
()	Thorax not pollinose					. L. lynettae
30 (27).	Thorax not pollinose Abdominal tergites 3-5 tan wi	th small	media	n blac	k spo	ts:
(= , )	tergites 4-5 with additional la	teral spot	S		or opo	L. bellula
	tergites 4-5 with additional la Abdominal pattern not as above Scutellum with basal black patch Scutellum without basal black patch Wing infuscated	e e e e e e e e e e e e e e e e e e e		• •	• •	31
31 (30).	Scutellum with basal black patch	nes			. i	" scutellata ♀
0 - (00)	Scutellum without basal black p	atches				32
32 (31)	Wing infuscated		• •	•		L. gibbosa ♀
J (J 1)	Wing hyaline	• • •	••	• •	• •	33
33 (32)	Abdominal tergites 3-5 tan wi	th anical	hlack	hands	of ne	ear
33 (32)	uniform width	in aprour	oracic	Carras	01 110	L. janicae ♀
	Wing hyaline Abdominal tergites 3-5 tan wing uniform width Abdominal tergites 3-5 black with	n lateral (t	ergite 3	or su	hmedi	an
	tan patches		018110 5	, 01 04	L.	albofasciata ♀
34 (19)	tan patches Wing patterned		• •	••	1	D. pictinennis
0.(1)	Wing not patterned	••	• •	• •	•••	35
35 (34)	Wing not patterned Scutellum with several fine h	nairs in	additio	n to	 บรบลโ	4
20 (2.)	macrochaetae		aaaiiio		D.	novoguinensis
	macrochaetae	ochaetae	••••	•	. 2	36
36 (35)	Arista consisting only of axis	with si	ngle da	orsal i	rav a	xis
30 (33)	ending in large terminal fork					
	Axis of arista with several rays	• •	•••		•	37
37 (36)	Mesonotum patterned	• •	• •	• •	• •	38
37 (30)	Mesonotum unicolourous, almos					
	colouration on humeral calli	only	uious o	1 44 1 6 1 1	differe	44
38 (37)	Scutellum with pale spots basall	v and ani	cally	• •	• •	39
30 (31)	Scutellum unicolourous, or pale	r anically	only	• •	• •	40
39 (38)	Mesonotum dark with paler long	gitudinal	streaks	• •	• •	
37 (30)	Mesonotum with irregular, occa	sionally o	nalesci	ng lon	 oitudii	nal
	dark brown strines	Sicharry C	Careser	116 1011	gituari	D olanca
40 (38)	dark brown stripes Mesonotum tan with longitudina	ıl dark br	nwn str	ines of	unifo	rm
10 (50)	width	ii dain oi	O *** II G ***	.pcs o.	umino.	. D. eluta
	Mesonotum otherwise patterned					
41 (40)	Carina with dark transverse ban	d	• •	• •	г	) naracultello
11 (10)	Carina of uniform colouration					
42 (41)						. D. brunnea
12 (11)	Carina pale tan				• • •	4 -
43 (42)	Face entirely pale tan					D. variata
15 (12)	Carina pale tan; face otherwise					
44 (37)	Anterior scutellar bristles ca 1/2					
11 (37)	Anterior scutellars about as long					
45 (44)	Mesonotum blackish or very da					
15 (11)	Mesonotum pale tan to mid-bro					
46 (45)	C-index <i>ca</i> 1.0					4.77
TU (TJ)	C-index ca 1.6					
47 (46)	Prescutellar bristles much weaker					
11 (70)	Prescutellars larger than anterio					
48 (45)	Pleura appreciably darker than					
70 ( <b>7</b> 3)	Pleura not darkened					
49 (48)		• •	• •	• •		melanopleura
72 ( <del>7</del> 0)	Carina hose-like Carina broad and flat, lateral ar	d ventral	margir	16 6011	ared	D nonne
50 (48)	Fringe of heavy bristles on 3rd					
JU (70)	entire				_	
		• • • •		• •		. iiiiiviiata

	Fringe of heavy bristles on 3rd costal length of section				51
51 (50)	. C-index <i>ca</i> 1.2				
JI (30).	C-index 2.0 or greater				52
52 (51)	. C-index <i>ca</i> 3.1	••	• • •	• •	D nimia
JZ (J1).	C-index 2.0-2.3				
53 (52)	Abdomen uniformly tan	••	• • •		concolor
33 (32).	Abdominal tergites with apical black bands				
54 (53)	. Abdominal tergites with broad apical band				hila sp. A
5 . (55).	Tergites with narrow apical bands				
55 (13).	. Costa protruding at distal incision as larg				
00 (10).	Wing without lappet			• •	c -
56 (55).	. Mesonotum tan with darkening in medi	an long			
( /-					lappetata
	Mesonotum with complex pattern of p		d dark		••
					iversicrus
57 (55).	. Frons highly polished, with metallic sheen		-	• • •	
` ,	Frons not highly polished, without metallic				
58 (57).	. Wing with transverse basal black band	]	Lissocep	hala me	tallescens
	Wing entirely clear				59
59 (58).	. Abdomen globose, broader than thorax		. Sphae	rogastre.	lla javana
	Abdomen not globose, not broader than the	rax (gen	ius <i>Liod</i>	rosophild	ı) 60
60 (59).	. Acrostichal hairs absent				L. vitrea
	Acrostichals present				61
61 (60).	. Abdomen black				
	Abdominal tergites 3-6 tan, tergites 3-4 wi				L. lutea
62 (57).	. Front flat, square or rectangular; ocellar b			nterior	
	ocellus, outside ocellar triangle (genus Ne	esiodros	ophila)		63
	Front not as above; ocellar bristles beh	iind an	terior of	ocellus,	٠.
	within triangle				
63 (62).	. Mesonotum with prominent silvery greeni	sh poll	inosity	<b>N</b> .	. argentea
	. Mesonotum with prominent silvery greeni Mesonotum dark brownish, without pollin	sh pollinosity .		N. N.	. argentea
	. Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusua	sh pollinosity . lly long	· ··	N.	. argentea pectinata
	. Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusua	sh pollinosity . Ily long		N. thrica sa	argentea pectinata moaensis
64 (62).	Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusua	sh pollinosity . Ily long or long	Zygo	N. thrica sa	. argentea pectinata
64 (62).	Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusual Proboscis not unusally heavily sclerotised. Front broad; anterior reclinate orbital brists.	sh pollinosity lly long or long stle mir	Zygo Lute or	thrica sa	argentea pectinata moaensis
64 (62).	<ul> <li>Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusual Proboscis not unusally heavily sclerotised. Front broad; anterior reclinate orbital bristanterior dorsocentral bristles large, clos</li> </ul>	sh pollinosity. lly long or long stle mires to tra	Zygo  Lute or ansverse	thrica sa absent; suture	argentea pectinata moaensis
64 (62).	<ul> <li>Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusuand proboscis not unusally heavily sclerotised. Front broad; anterior reclinate orbital bristanterior dorsocentral bristles large, clos (Genus Microdrosophila)</li> </ul>	sh pollinosity. Ily long or longstle mire to tra	Zygo Lute or ansverse	thrica sa  absent; suture	argentea pectinata moaensis
64 (62).	<ul> <li>Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusua</li> <li>Proboscis not unusally heavily sclerotised. Front broad; anterior reclinate orbital brist anterior dorsocentral bristles large, clos (Genus Microdrosophila)</li> <li>Anterior reclinate orbital usually well</li> </ul>	sh pollinositylly long or long stle mir te to tra develo	Zygo Suute or sinsverse Suppose a	thrica sa  absent; suture	argentea pectinata moaensis 65
64 (62). 65 (64).	<ul> <li>Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusua</li> <li>Proboscis not unusally heavily sclerotised. Front broad; anterior reclinate orbital brist anterior dorsocentral bristles large, clos (Genus Microdrosophila)</li> <li>Anterior reclinate orbital usually well dorsocentral bristles close to posterior or</li> </ul>	sh pollinosity lly long or long stle mir te to tra develor	Zygo nute or nsverse oped; a	thrica sa  absent; suture  nterior	argentea pectinata moaensis 65 66
64 (62). 65 (64).	<ul> <li>Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusual.</li> <li>Proboscis not unusally heavily sclerotised. Front broad; anterior reclinate orbital brist anterior dorsocentral bristles large, clos (Genus Microdrosophila)</li> <li>Anterior reclinate orbital usually well dorsocentral bristles close to posterior of Fringe of heavy bristles on 3rd costal sections.</li> </ul>	sh pollinosity. Ily long or long stle mire to trade develorsoce ion of v	Zygo nute or nsverse oped; a ntrals	thrica sa absent; suture  nterior	argentea pectinata moaensis 65 66
64 (62). 65 (64). 66 (65).	Mesonotum with prominent silvery greeni Mesonotum dark brownish, without polling. Proboscis very heavily sclerotised, unusual Proboscis not unusally heavily sclerotised. Front broad; anterior reclinate orbital brist anterior dorsocentral bristles large, close (Genus Microdrosophila)  Anterior reclinate orbital usually well dorsocentral bristles close to posterior of Fringe of heavy bristles on 3rd costal sectifinge of heavy bristles on 3rd costal sectification.	sh pollinosity lly long or long stle min te to tra develo dorsoce ion of v ion of v	Zygo nute or insverse pped; a ntrals wing ent	thrica sa absent; suture nterior tire M	argentea pectinata moaensis 65 66 68 I. takada
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73 (71). C-index ca 1.0; carina very large	. D. gameiae
74 (73). Body entirely tan; wing clear D.	74
	hirtominuta
Body mid-brownish; abdominal tergites 2-5 with darker apic	al
bands; wing with brownish tinge	D. trifurca
75 (70). Fore femur with row of strong peg-like setulae on inner side.	76
Fore femur without peg-like setulae	77
Fore femur without peg-like setulae 76 (75). Male front with milky white orbital pollinosity	
Milky white pollinosity on male front entire	sulfurigaster
Milky white pollinosity on male front entire	D.? kohkoa
77 (75) Carina large broad tlat wedge-shaped	72
Carina, if present, not as above	79
78 (77). Body entirely shiny dark brownish	D. persicae
Carina, if present, not as above  78 (77). Body entirely shiny dark brownish  Male abdomen black; female abdominal tergites tan with	h
darker apical bands	D. rubida
	80
Carina well developed	84
80 (79). C-index <i>ca</i> 1.0	81
	82
	D. tricolora
	D. durantae
02 (00) 10 1 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Pleura almost entirely darkened	
Pleura almost entirely darkened	nigriventer
Wing hyding	D aibiventer
Wing hyaline	D. tozana
84 (79). Male fore leg without sex-comb	, D ironensis
Male fore leg with sex-comb or at least several large teet	
on metatarsus	85
85 (84). Sex-comb consisting of large bushy brushes on 1st 2 tarsa	al
segments	D. scopata
Sex-comb consisting of blackened teeth	D. scopata
Sex-comb consisting of blackened teeth	<b>D. scopata</b> 86 n
Sex-comb consisting of blackened teeth	D. scopata 86 n . denticulata
Sex-comb consisting of blackened teeth	D. scopata 86 n denticulata
Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus  Sex-comb more extensive  87 (86). Sex-comb consisting of transverse rows of bristles on 1.	D. scopata 86 n . denticulata 87 st
Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus  Sex-comb more extensive  87 (86). Sex-comb consisting of transverse rows of bristles on 1:  2 tarsal segments	D. scopata 86 n . denticulata 87 st
Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus  Sex-comb more extensive  87 (86). Sex-comb consisting of transverse rows of bristles on 1:  2 tarsal segments  Sex-comb longitudinal or oblique	D. scopata 
Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus  Sex-comb more extensive  87 (86). Sex-comb consisting of transverse rows of bristles on 1st 2 tarsal segments  Sex-comb longitudinal or oblique  88 (87). Sex-comb consisting of 2 rows of bristles on metatarsus and 1 rows.	D. scopata 86 n . denticulata 87 st 88 89 w
Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus  Sex-comb more extensive  87 (86). Sex-comb consisting of transverse rows of bristles on 1:  2 tarsal segments  Sex-comb longitudinal or oblique  88 (87). Sex-comb consisting of 2 rows of bristles on metatarsus and 1 row on 2nd tarsal segment  D. pseu	D. scopata
Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus  Sex-comb more extensive  87 (86). Sex-comb consisting of transverse rows of bristles on 1:  2 tarsal segments  Sex-comb longitudinal or oblique  88 (87). Sex-comb consisting of 2 rows of bristles on metatarsus and 1 row on 2nd tarsal segment  D. pseu Sex-comb consisting of 5 rows of bristles on metatarsus and 3-	D. scopata
Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus  Sex-comb more extensive  87 (86). Sex-comb consisting of transverse rows of bristles on 1:  2 tarsal segments  Sex-comb longitudinal or oblique  88 (87). Sex-comb consisting of 2 rows of bristles on metatarsus and 1 row on 2nd tarsal segment  D. pseu Sex-comb consisting of 5 rows of bristles on metatarsus and 3-rows on 2nd tarsal segment	D. scopata n denticulata
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Sex-comb consisting of blackened teeth  86 (85). Sex-comb consisting only of 1-2 very large bristles apically of metatarsus	D. scopata

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